MR Form 3 (Revised 1984)



DIVISION OF OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1985 to Month/Year December 1985

(To be submitted for \underline{each} mining operation at the end of \underline{each} calendar year to the Division at this $\underline{address}$:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	Interstate Brick Company MINE NAME: Fivemile Pass
ADDRESS:	9780 South 5200 West West Jordan, UT 84084
PERMIT NUME	BER AND DATE OF PERMIT: ACT/045/006 Not yet approved
REPRESENTAT	TIVE: Ronald H. Baldwin
SECTION(S):	: 32; 4, 5 TOWNSHIP(S): 6; 7 South RANGE(S): 3 West SLBM
MINERAL(S)	MINED: clay
STATE AND/C	OR FEDERAL MINERAL LEASE NUMBERS: State Mineral Lease Number 28072
SPECIAL USE	PERMITS AND/OR RIGHTS-OF-WAY: None
Section requires ea	n 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, ach operator to include with this report an up-dated map and plan

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining

and reclamation activities which have occurred during the past year.

Disturbance	Acreage	
Pit Roads Facilities Waste Dumps Other	0 0 0 0	Previously shot rock was stripped from within pit 3d and spoiled in either pit 3c or back into pit 3d. No new ground was disturbed.

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total	
1977 1978 1976 1979 1979 1980 1979 1981 1982 1981 1983 1983 1983	38 40 40 40 43 43 43 45 45	20.4 acres predate the act

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	ī	Area 2 3	etc.
Acreage of Area	No	topsoil	was disturbed
Depth of Topsoil Removal (inches)	W		
Depth of Topsoil Replacement (inches)*			
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)			<u>- 74 -</u>
Volume Actually Salvaged (ya ³ or ac ft)		197	
Volume Required for Reclamation (yd ³ or ac ft)			
Surplus or Deficit Volume (yd³ or ac ft)			
Storage Status (short- or long-term)			

Soil	Tabulation	Chart	(continued)

		Area
Area Affected (in mir	ning sequence)	1 2 3 etc.
Storage Location		N/A
Area Where Soil Has B	Been Used (if not stored)	N/A
Running Total (all st	tockpiles) (ya ³ or ac ft)	11,500 y ³
Short-term		0
Long-term top	psoil substitute material	11,500 y ³
*Of previously strip	ped area recently reclaimed.	
(a) Tabulation of placement and illust	f all (newly removed) out-of-pit s ration on a map.	spoil volumes, date of
Area	<u>Date</u>	Acreage
	ither placed in pit 3e or ba September 9 - October 26. 1 ed.	
(e) Tabulation o	f quantity of commodity mined.	
	Commodity	Tonnage
(Mined) (Hauled	Clay (pit 3a) Clay	30,000 18,000
illustration on a ma	of any new construction during the p, including, but not limited to:	e report period with
2. Roads.		

	3.	None
		Culverts. None
	5.	Sediment ponds, containment ponds. None
	6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.). None
	7.	Topsoil stockpiles. None
(g) D	esc:	ription of any environmental problem areas with a proposed plan on and illustration on a map, including, but not limited to:
	1.	Pit stability problems. None

3.	Accidental water discharge, dam none	failure, etc.
4.		
5.	Revegetation problem areas. None	
6.	Existence and location of unsuita	
(a) Tabulustration	: ulation of the acreage reclaimed du n on a map, distinguishing between: Backfilled, graded and contoured	
	Area	Acreage
Backfille Graded: Contoured	None	er of 3d
2.	Topsoiled areas.	
	Area	
	None	<u>Acreage</u>

		Area	Acreage	
	None			
	4. Reseeded ar	eas (areas previou	sly seeded, then seeded again).	
		Area	Acreage	
	None			
(b) date	Tabulation of tot by years with ill Year	al acreage reclaim ustration on an up		mix
	The state of the s		Acreage	
	15/15		0	
		1977	0	
		1978	0	
		1979	0	
		1980 1981	0	
		1982	0	
		1983		
			0	
	4607		0	
	1987 1984	1985	0	
(c)	A.984	1985	The state of the s	
(c) rioa,	Description of the including:	1985 e reclamation proc th of topsoil appl	edures used during the report	
(c)	Description of the including: 1. Average dep	1985 e reclamation proc th of topsoil appl	edures used during the report	
(c)	Description of the including: 1. Average dep	1985 e reclamation proc th of topsoil appl	edures used during the report	

	3.	Date of seeding during the report period.
Spring	-	N/A
17		
all		
	4.	Seeding procedures usea.
		nst or drilled or any other). N/A
	5.	Rate of seed application.
		cre of Pure Live Seed (PLS) (if varied, please explain) ${\Bbb N}/{\Bbb A}$
		Type and rate of fertilizer applied.
	7.	Type and rate of mulch applied. $\rm N/A$
	8.	Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.). N/A
	9.	Revegetation test plot information.
(Cover	, densi	ity, productivity, etc.) N/A

	Soil analyses were made as part of efforts connected with filing a new MR-1 form. A copy of the soil ana is enclosed.
	ription of results of previous revegetation efforts, including: be done as applicable.)
1.	Types (species) of seed that have germinated and are growing. None
2.	Types (species) of seed that are not growing successfully. None
3.	Areas experiencing problems with weeds and weed types. None
4.	Significant erosional problems. None
5.	Areas of unsuitable overburden on the surface as related to revegetation failure. None
6.	Procedures used or proposed to correct these problems. $\ensuremath{\mathbb{N}/A}$

Area		Date	0	
Alca	None	<u>Date</u>	<u>Acreage</u>	
8.	Results of so	oil: apalyeis		
	See #C-10.			
eriod, incl eplacement,	uding itemized seeding, etc.)	ne reclamation costs ind costs for each operation and for each type of operations oval, etc.) on a per acr	on (i.e., grading, tops disturbance (i.e., soni	oil
		Acres	Cost/Acre	
SeedingA. SeedB. Mulc	ng Replacement Ded Preparation N		30,000	not been fin- ished & addi- tional back-
BackfillContouriTopsoilSeedingA. Seed	ng Replacement Ded Preparation N		30,000	not been fin- ished & addi- tional back- filling will
. Backfill . Contouri . Topsoil . Seeding A. Seed B. Mulc C. Fert D. Seed	ng Replacement Ded Preparation n ilizer		30,000	filling will
Backfill Contouri Topsoil Seeding A. Seed B. Mulcl C. Fert D. Seed Other OND INFORMA A. An in Div. Chair acti Sect fur	Replacement Ded Preparation ilizer TION: updated bond es ision's approva nges to the MRF ual/estimated r tion above. Th	timate should be included to the Mining and Record that the Mining and Record that the contract of the release	ded, if required in the clamation Plan (MRP) or ing a detailed itemizate the clined in the RECLAMATION revenetated areas from	not been fin- ished & addi- tional back- filling will occur if ion of ON om

		•
B. Bond release.		
Acres	Bond Amount Released	Date

ADDITIONAL INFORMATION:

Supply any auditional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

A new Mr-1 form was filed with the Division on this mine in 1985. The Divison responded in December of the same year and listed their concerns. We will respond to those concerns in 1986 and will hopefully obtain an approved permit.

Interstate Brick September 5, 1985

NPI Soil Testing/Plant Tissue Analysis Laboratory 417 Wakara Way Salt Lake City, UT 84108 (801) 582-0144, Ext. 371, Von Isaman

	Name	% OM	Sat. %	рН	EC mmhos/cm	NO3-N	P ppm	K ppm	% Sand	% Silt	% Clay	Textural Class	Ca ppm	Mg ppm	Na ppm	SAR	CEC meq/100g
1.	Five Mile Bank Fill Topsoil Substitute	.25	30	8.02	11.66	80	3	78	56	27	17	Sandy Loam	532	496	4044	30	14.5
2.	Five Mile Topsoil	1.95	33	8.21	0.28	8	3	226	48	31	21	Loam	49	12	8	0.3	23.6
3.	Jim Gay, Dump Material Topsoil Substitute	.49	38	8.48	0.52	6	2	129	56	23	21	Sandy Clay Loam	28	11	111	5	15.0
4.	Jim Gay, South Bank Hill Topsoil Substitute	.43	31	8.20	5.50	7	2	173	54	29	17	Sandy Loam	163	257	1705	23	13.8
5.	Powell Bank Fill Topsoil Substitute	.55	34	8.17	1.24	4	1	209	42	39	19	Loam	84	50	164	4	16.5
6.	Powell Topsoil	2.55	39	8.01	0.41	10	5	175	58	19	23	Sandy Clay Loam	75	16	13	0.4	27.5

Five Mile Bank Fill Topsoil Substitute: This Soil is rated: saline-sodic soil. Based on the criteria to establish suitability of topsoil or topsoil substitutes, we do not recommend this soil as a plant growing medium. Therefore, no fertilization recommendations are made. Exchangeable-sodium-percentage (ESP) is 30.5.

ive Mile Topsoil: This soil is rated: Non-saline soil. Nutrient rating: (N) Nitrogen: 3/8 (P) Phosphorus: 1/3 (K) Potassium: 2/2 Fertilizer recommendation: 55 lbs N/acre, 17 lbs P/acre, No additional K required. A sulfur base fertilizer (as ammonium phosphate sulfate) would help lower pH.

Jim Gay, Dump Material: This soil is rated: Non-saline soil. Nutrient rating: (N) Nitrogen: 2/8 (P) Phosphorus: 1/3 (K) Potassium: 2/2
Fertilizer recommendation: 75 lbs N/acre, 17 lbs P/acre, No additional K is required. A sulfur based fertilizer (as ammonium phosphate sulfate) would help lower pH.

Jim Gay, South Bank: Same as Five Mile Bank Fill Topsoil Substitute except (ESP) is 25.0. However, gypsum may be added to remedy the high sodium condition Powell Bankfill: This soils is rated: Non-saline soil. Nutrient rating: (N) Nitrogen 2/8 (P) Phosphorus 1/3 (K) Potassium 2/2 Fertilizer recommendation: 75 lbs N/acre, 17 lbs P/acre, no additional K is required. A sulfur base fertilizer (as ammonium phosphate sulfate) would help lower pH. Powell Topsoil: This soil is rated: Non-saline. Nutriten rating: (N) Nitrogen 4/8 (P) Phosphorus 2/3 (K) Potassium 2/2 Fertilizer recommendation: 25% lbs N/acre, 9 lbs P/acre, no additional K is required. A sulfur base fertilizer (as ammonium phosphate sulfate) would help lower pH.